



深圳市星通无线技术有限公司

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specification

Project name: CREagle tablet Terminal

Product name: CREagle flat terminal WiFi/BT antenna

 深圳市星通无线技术有限公司 Shenzhen Xingtong Wieress Technology Co., Ltd			2024-05-11
			A0
			XT-YF-004
	CREagele		CREagele-APP-RA

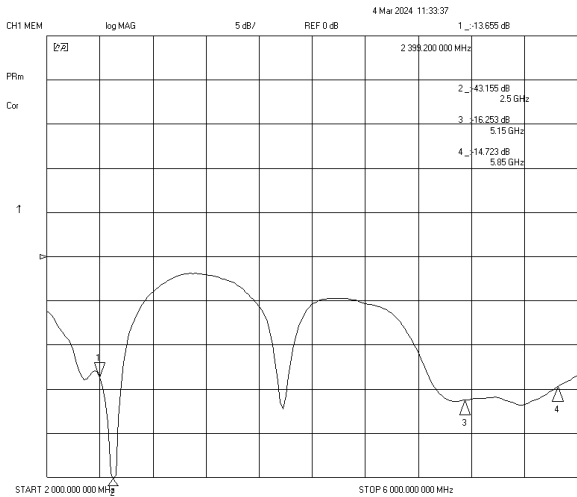
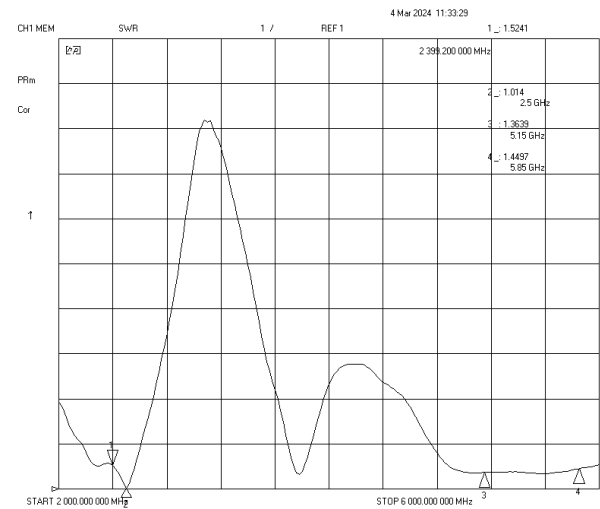
1.产品结构（Product Constrution）

1. Antenna material: FPC
2. Adhesive type: 3M9471
3. Antenna size: 33.5*9.6 (tolerance ±0.2mm)
4. Antenna form: FPC+IPEX (RF coaxial line $\varnothing$ 1.13 $\varnothing$ 90mm-1 generation)

2.参数指标 （Parameter index）

Scope of use: guest machine
Antenna frequency: 2400-2484mhz5150-5850mhz
Antenna technology: unipolar coupling
The average free space gain at the plate end of the antenna : 2.4G $\geq$ 4.3dbi
The average free space gain at the receiving end of the antenna: 2.4G $\geq$ 1.1dbi
the standing wave of the antenna: < 1.52DBm
Return loss: < -14DB
Antenna polarization mode: vertical/horizontal
Power capacity: 5W
Installation method: Connect the IPEX terminal cable to the mainboard

5.8G $\geq$ 1.87dbi

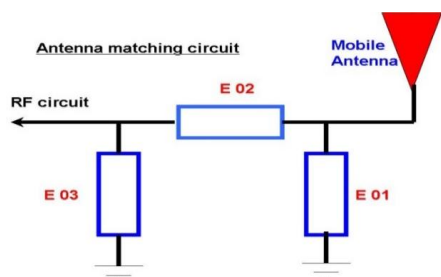


频点	2400mhz	2500mhz	5150Mhz	5850Mhz
SWR(dbm)	1.52	1.01	1.36	1.44
LOG (db)	-13.65	-43.15	-16.25	-14.72

产品名称

CREagele

CREagele-APP-RA



WIFI/BT Antenna	
Element	Value
E1 (0201)	
E2 (0201)	
E3 (0201)	
E4 (0201)	
匹配无修改	

4.2.1-2. 4G-TEST-2D(平板端) tablet device

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-1.56	-1.59	-1.33	-1.29	-1.58	-1.39	-1.52	-1.73	-1.44	-1.68	-1.91
Gain (dBi)	5.55	5.43	5.62	5.62	5.22	5.30	5.07	4.82	4.96	4.53	4.30
Efficiency (%)	69.89	69.31	73.66	74.25	69.43	72.60	70.40	67.20	71.82	67.85	64.42
Directivity (dB)	5.11	5.02	4.95	4.91	4.80	4.69	4.60	4.55	4.40	4.22	4.21
Peak Gain Position (Theta)	105.00	105.00	105.00	105.00	105.00	105.00	105.00	105.00	105.00	105.00	90.00
Peak Gain Position (Phi)	285.00	285.00	285.00	285.00	285.00	285.00	285.00	285.00	285.00	285.00	300.00
Efficiency ThetaPol (%)	68.67	68.06	72.29	72.78	67.96	70.94	68.69	65.53	69.92	65.95	62.48
Efficiency PhiPol (%)	1.22	1.25	1.36	1.47	1.47	1.67	1.71	1.67	1.90	1.90	1.94
Upper Hem. Efficiency (%)	16.75	17.28	18.99	19.87	19.48	21.64	22.47	22.77	25.65	25.52	25.52
Lower Hem. Efficiency (%)	53.14	52.03	54.67	54.38	49.95	50.96	47.93	44.42	46.16	42.33	38.91

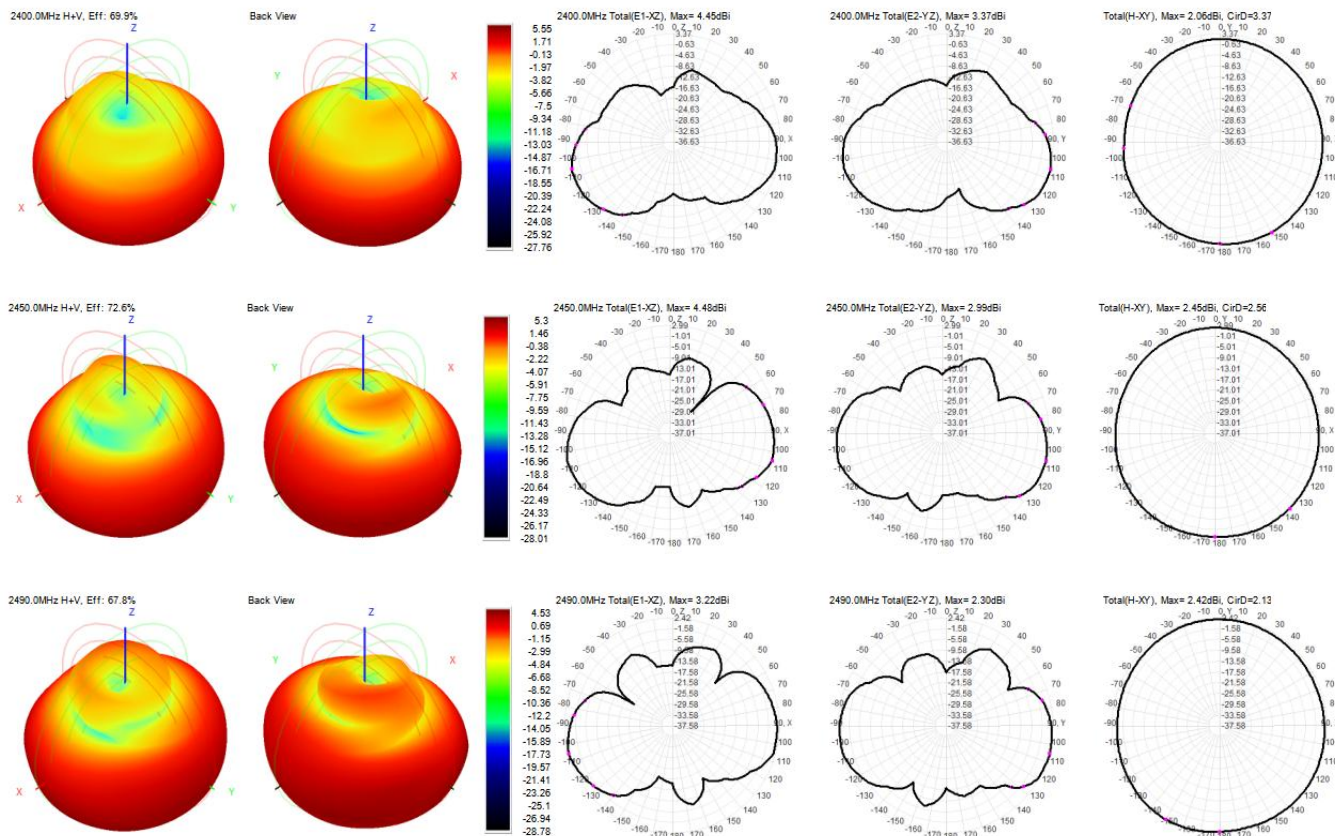
4.2.2-5G-TEST-2D (平板端tablet device)

Frequency ID	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
Frequency (MHz)	5150.0	5200.0	5250.0	5300.0	5350.0	5400.0	5450.0	5500.0	5550.0	5600.0	5650.0	5700.0	5750.0	5800.0	5850.0
Efficiency (dBi)	-2.21	-2.11	-2.38	-2.33	-2.53	-2.62	-2.36	-2.71	-2.04	-2.40	-3.07	-2.03	-2.39	-3.43	-1.65
Gain (dBi)	3.02	4.02	3.26	3.10	2.87	2.56	2.97	2.56	2.96	2.62	2.04	3.20	2.75	1.87	3.08
Efficiency (%)	60.08	61.45	57.85	58.42	55.81	54.65	58.08	53.57	62.49	57.52	49.33	62.67	57.74	45.42	68.35
Directivity (dB)	5.23	6.13	5.64	5.44	5.41	5.18	5.33	5.27	5.00	5.02	5.11	5.23	5.14	5.30	4.73
Peak Gain Position (Theta)	90.00	90.00	90.00	90.00	90.00	90.00	90.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	45.00
Peak Gain Position (Phi)	75.00	90.00	105.00	105.00	105.00	105.00	105.00	0.00	30.00	0.00	345.00	345.00	30.00	0.00	315.00
Efficiency ThetaPol (%)	47.08	48.66	47.24	47.87	45.43	44.73	47.83	43.06	50.51	46.54	40.11	51.63	47.04	37.26	55.13
Efficiency PhiPol (%)	13.00	12.79	10.61	10.55	10.38	9.92	10.25	10.51	11.97	10.98	9.22	11.05	10.70	8.16	13.22
Upper Hem. Efficiency (%)	38.64	40.29	38.33	39.65	38.17	38.27	40.74	37.95	44.79	41.67	35.72	45.59	41.98	32.80	49.34
Lower Hem. Efficiency (%)	21.43	21.16	19.53	18.77	17.64	16.38	17.34	15.62	17.69	15.85	13.61	17.09	15.75	12.63	19.01

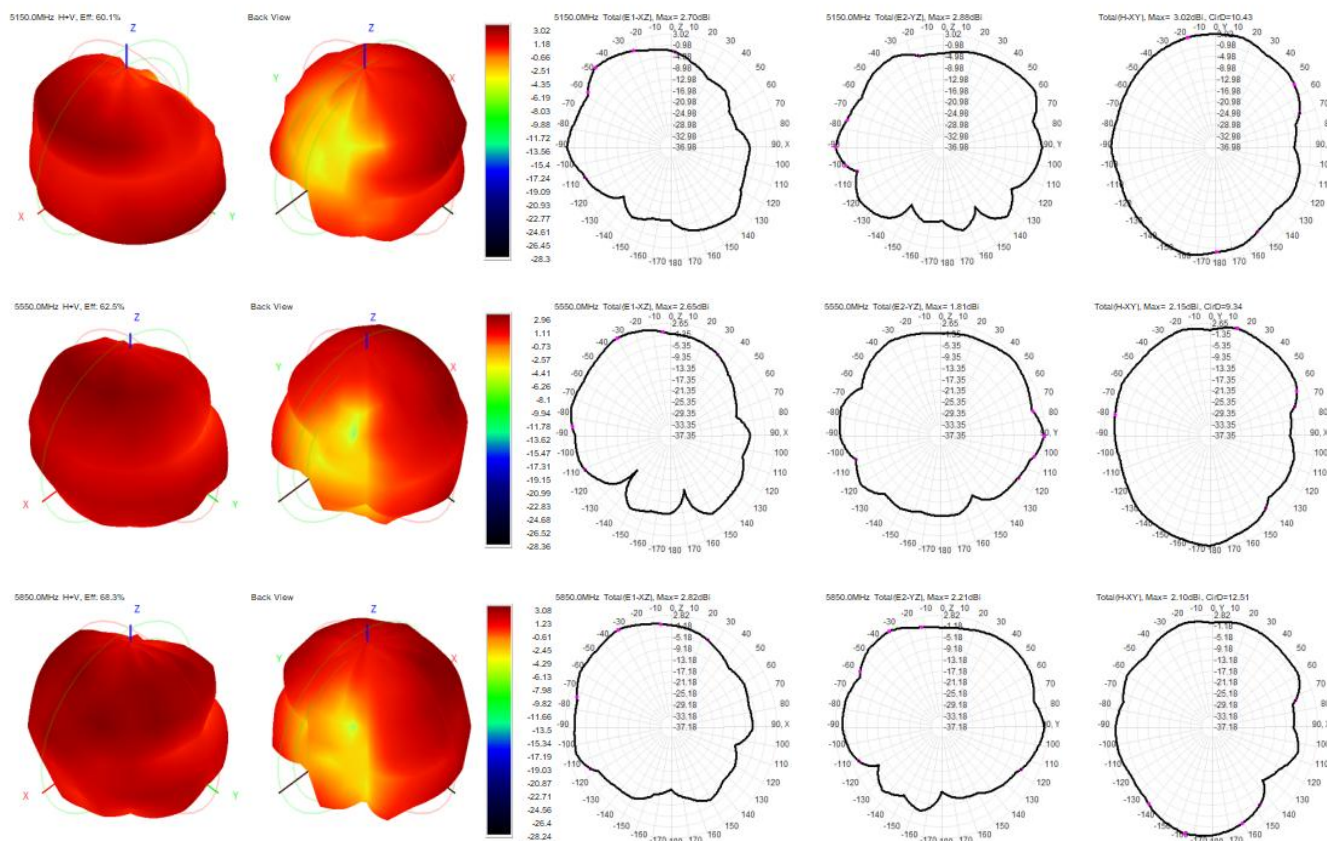
4.2.3-BT/WIFI-2D (接收端receiving terminal)

Frequency ID	1	2	3	4	5	6	7	8	9	10	11
Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Efficiency (dBi)	-2.79	-2.95	-2.78	-2.88	-3.00	-2.88	-2.91	-2.98	-2.84	-3.06	-3.21
Gain (dBi)	1.19	1.39	1.77	1.69	1.41	1.55	1.44	1.50	1.55	1.30	1.02
Efficiency (%)	52.65	50.72	52.67	51.52	50.10	51.50	51.12	50.38	51.95	49.42	47.76
Directivity (dB)	3.98	3.93	3.76	3.57	3.41	3.43	3.36	3.48	3.39	3.36	3.18
Peak Gain Position (Theta)	165.00	165.00	165.00	165.00	120.00	120.00	75.00	75.00	75.00	75.00	75.00
Peak Gain Position (Phi)	165.00	165.00	165.00	165.00	270.00	270.00	75.00	75.00	75.00	75.00	75.00
Efficiency ThetaPol (%)	32.87	31.53	33.25	32.48	31.87	32.32	32.12	32.10	33.04	31.80	30.70
Efficiency PhiPol (%)	19.79	19.19	19.41	19.04	18.23	19.18	19.00	18.28	18.91	17.62	17.06
Upper Hem. Efficiency (%)	23.34	22.79	23.97	23.64	23.27	24.26	24.44	24.40	25.51	24.54	24.02
Lower Hem. Efficiency (%)	29.31	27.93	28.70	27.88	26.83	27.24	26.68	25.98	26.45	24.88	23.74

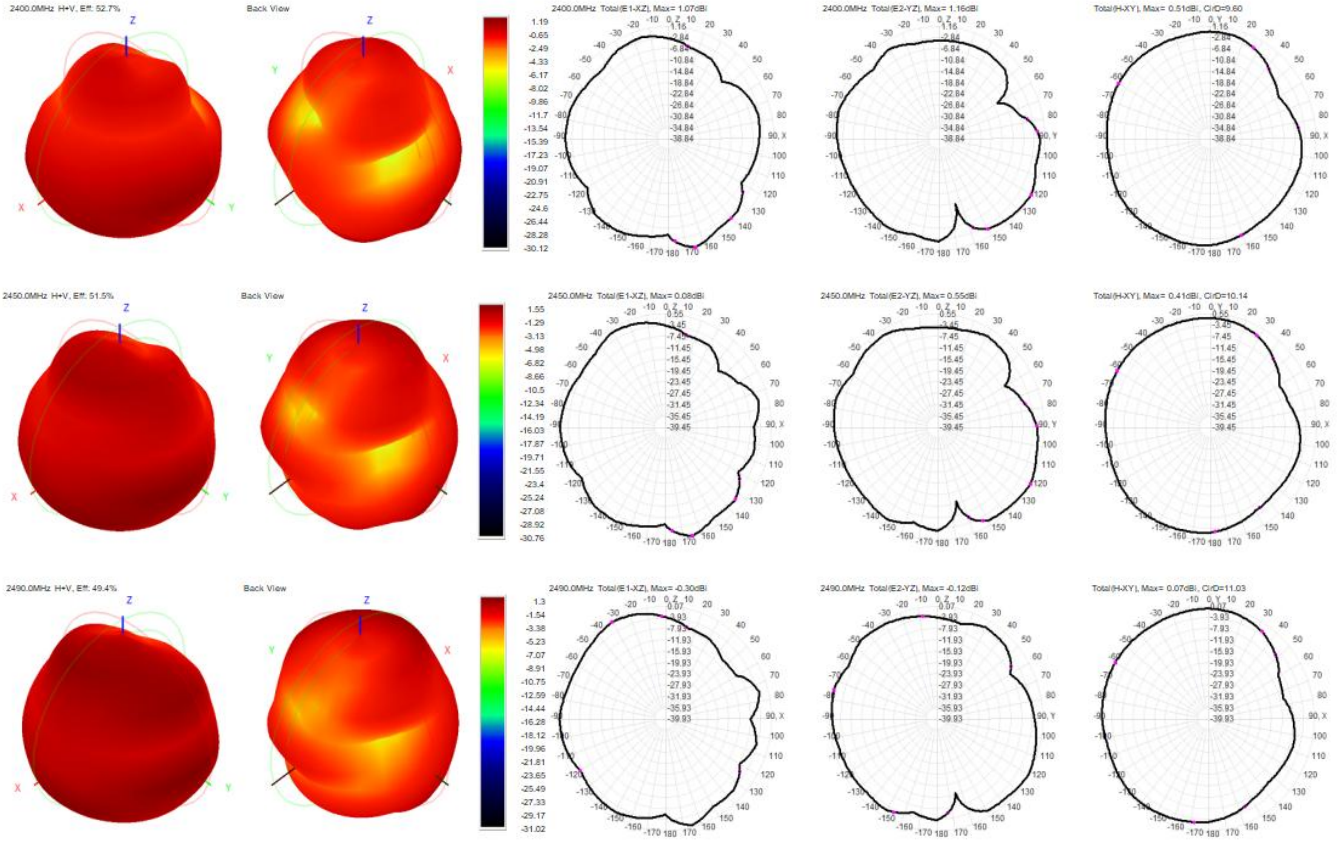
4.2.3-2. 4G-3D

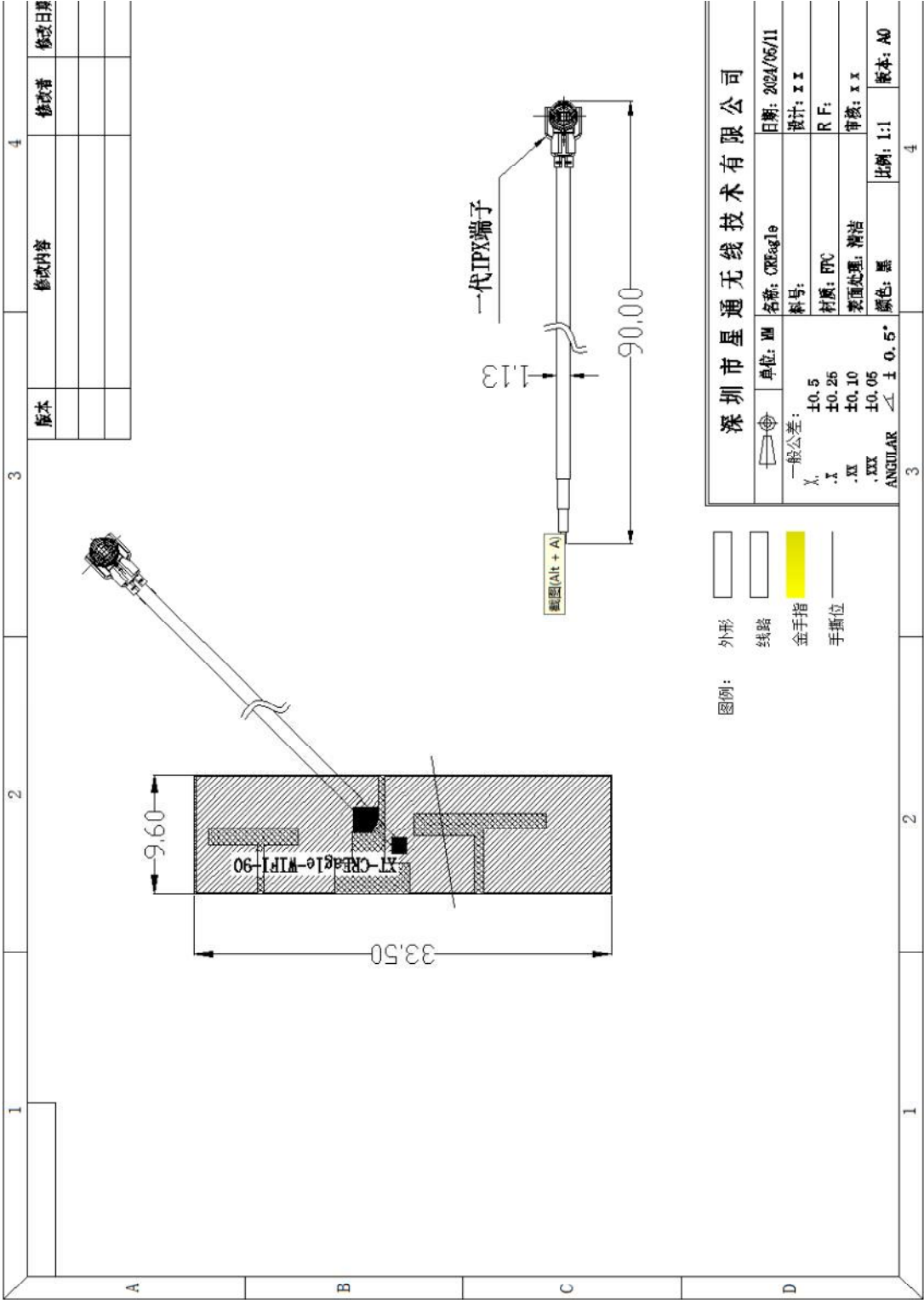


4.2.4-5G-3D



■ 4.2.5-WiFi/BT接收端BT receiving end





6. 维持力验证:

	CREagele 内置 FPC 天线 Built-in FPC antenna	5PCS
2024-05-11		2024-05-11



